

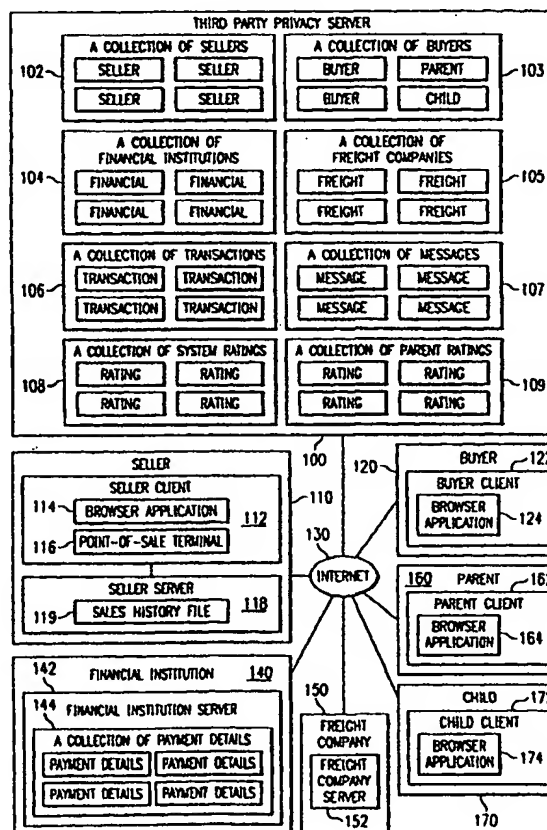
## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

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(54) Title: THIRD PARTY PRIVACY SYSTEM

## (57) Abstract

A system and method of providing privacy through anonymity is described. As one aspect of the invention, a person registers at a privacy server (100) and is given a pseudo identity that can be used to browse, register, purchase, pay for, and take delivery of products and services. Transactions are completed with the privacy server (100) on a need-to-know basis. A seller (110) communicates with the privacy server (100) but only sees a demand, not the identity of the buyer (120). The financial institution (140) communicates with the privacy server (100) and sees the payment, not the merchandise. The freight company (150) communicates with the privacy server (100) and sees the package, not its contents. The privacy server (100) operates in a manner that assures privacy and anonymity for the buyer and, if necessary, both the seller as well.



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### THIRD PARTY PRIVACY SYSTEM

#### Cross References to Related Applications

This application relates to the following group of applications. Each application in the group relates to, and incorporates by reference, each other application in the group. The invention of each application is assigned to the assignee of this invention. The group of applications includes the following.

5        "Intelligent Agents for Electronic Commerce", application number 08/784,829, filed January 17, 1997, having inventor Douglas L. Peckover, and claiming priority from, "Intelligent Agents for Electronic Commerce", application number 60/010,087, filed January 17, 1996, having inventor Douglas L. Peckover.

10       "Third Party Privacy Systems", application number 60/050,411, filed June 20, 1997, having inventors Douglas L. Peckover and Jeffrey M. Zucker.

      "Agent Technology for Newsgroups", application number 60/047,341, filed May 21, 1997, having inventors Carolyn Barthelenghi and Douglas L. Peckover.

      "Ad Agent Method and Apparatus", application number 60/052,373, filed July 11, 1997, having inventors Carolyn Barthelenghi and Douglas L. Peckover.

15       "Analysis and Communication Tools for a System", application number 60/057,685, filed August 27, 1997, having inventor Douglas L. Peckover.

      "Integrated Search and Communications System", application number 08/970,470, filed November 14, 1997, having inventors Jack Axaopoulous, James F. Carpenter and Douglas L. Peckover.

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25   whatsoever.

#### The Field of the Invention

This invention relates to the field of electronic privacy. In particular, the invention relates to privacy in commercial transaction where electronic communications systems are used.

#### Background of the Invention

5 As electronic commerce grows in importance, the possibility of maintaining one's privacy becomes more difficult. It has been asserted that the value of a network increases proportionally to the number of nodes in the network squared. It has also been asserted that the likelihood of maintaining one's privacy decreases as the square of the number of nodes in the network.

10 As consumers make more and more purchases, suppliers and others can build up large databases of information about consumers' purchase preferences. The privacy of the consumer is lost.

There is presently no system that allows a user to simply initiate a purchase of a physical good without exposing identifying information about the user. Many types of computer communications can be performed using anonymous techniques. However,  
15 no system presently allows consumers to make purchases anonymously.

Therefore, what is desired is an improved privacy system that allows consumers to make anonymous purchases.

#### A Summary of the Invention

20 A system and method of providing privacy through anonymity is described. As one aspect of the invention, a person registers at a privacy server and is given a pseudo identity that can be used to browse, register, purchase, pay for, and take delivery of products and services. Transactions are completed with the privacy server on a need-to-know basis. A seller communicates with the privacy server but only sees a demand, not  
25 the identity of the buyer. The financial institution communicates with the privacy server and sees the payment, not the merchandise. The freight company communicates with the privacy server and sees the package, not its contents. The privacy server

operates in a manner that assures privacy and anonymity for the buyer and, if necessary, the seller as well.

In some embodiments, the invention includes only the privacy server. Other embodiments include the communications system supporting the privacy server. Other  
5 embodiments include only the software (that is used by the server and/or the consumer and/or the seller and/or the financial institute and/or the freight company) on media or in an electromagnetic waveform.

The system is for all of commerce, and may be used in electronic commerce or by people who prefer more conventional commerce, such as a phone call or in-store visit.

10 Privacy through anonymity produces more accurate information for sellers, enabling new business tools that permit buyers' needs to be fulfilled more accurately.

The system has special provisions for protecting the privacy and anonymity of children. Parents are given direct control and supervision over their child's relationships, as well as where the child is permitted to visit on the Internet.

15 Although many details have been included in the description and the figures, the invention is defined by the scope of the claims. Only limitations found in those claims apply to the invention.

#### A Brief Description of the Drawings

20 The figures illustrate the invention by way of example, and not limitation. Life references indicate similar elements.

Figure 1 illustrates a third party privacy system.

Figure 2 through Figure 11 illustrate data structures that can be used in the system of Figure 1.

25 Figure 12 through Figure 15 illustrate example screen output from various locations in the system of Figure 1.

#### The Description

#### Definitions

The following terminology will be helpful in understanding various embodiments of the invention.

A product can be either a good or a service.

5 A consumer, or buyer, is any person or company that purchases products, or would otherwise be interested in receiving information about a product.

A supplier, or seller, is any person or company that supplies products, or would otherwise be interested in receiving consumer needs' information about a product.

10 A financial institution is anyone who would provide credit. In the examples described herein, the same financial institution is used in the description. It is important to note that multiple different financial institutions would normally use the system.

A freight company is anyone who would ship goods.

A user is a person or company that accesses the system. The user can be a consumer, buyer, supplier, or seller.

15 Figure Descriptions Details

The following illustrates one embodiment of the third party privacy system. Figure 1 includes a third party privacy server 100, seller 110, buyer 120, the Internet 130, financial institution 140, freight company 150, parent 160, and child 170. The third party privacy server 100 includes a collection of sellers 102, a collection of buyers 103, 20 a collection of financial institutions 104, a collection of freight companies 105, a collection of transactions 106, a collection of messages 107, a collection of system ratings 108, and a collection of parent ratings 109. Seller 110 includes a seller client 112, which includes a browser application 114 and point-of-sale terminal 116. Seller client 112 also includes seller server 118 which includes sales history file 119. Buyer 120 includes buyer 25 client 122 which includes browser application 124. Financial institution 140 includes financial institution server 142, which includes a collection of payment details 144. Freight company 150 includes freight company server 152. Parent 160 includes parent

client 162 which includes browser application 164. Child 170 includes child client 172 which includes browser application 174.

Figure 2 includes seller detail 200 which includes seller ID 201, password/password hint 202, seller name/seller address 203, contact information 204,  
5 methods of payment accepted 205, payment method for service 206, pseudo identity 207, and token balance 208.

Figure 3 includes buyer detail 300 which includes buyer ID 301, password/password hint 302, actual name/actual address 303, contact information 304, preferences 305, pseudo identity 306, token balance 307, and parent link/child  
10 link/ratings 308.

Figure 4 includes financial institution detail 400 which includes financial institution ID 402, password/password hint 404, name/address 406, contact information 408, and methods of payment accepted 409.

Figure 5 includes freight detail 500 which includes freight company ID 502,  
15 password/password hint 504, name/address 506, contact information 508, and methods of shipment accepted 509.

Figure 6 includes transaction detail 600 which includes transaction date/time 602, item description 604, and reference/comments 606.

Figure 7 includes message detail 700, sender ID 701, recipient ID 702, date/time  
20 703, and message 704.

Figure 8 includes system ratings details 800 which includes ID 802, Web site URL 804, ratings 806, comments 808, and creating comments 809.

Figure 9 includes parent ratings detail 900 which includes ID 902, Web site URL 904, ratings 906, comments 908, and creating comments 909.

25 Figure 10 includes buyer ID 1000 which includes buyer code 1010, space fill 1020, collision code 1030, and check value 1040.

Figure 11 includes payment detail 1100, which includes actual identity 1110, pseudo identity 1120, a collection of actual payment types 1130, a collection of payment rules 1140 and a collection of pseudo payment types 1150.

Figures 12, 13, 14, and 15 illustrate sample screens.

5    Registration Generally

The following describes the various registration techniques used in some embodiments of the invention. Each of the users of the privacy system needs to register with the privacy server.

Financial Institution Registration

10       A person from financial institution 140 manually contacts a person at the third party privacy server 100 location to register. The person at the third party privacy server 100 location registers the financial institution 140 by entering identification information, including financial institution ID 402, password/password hint 404, name/address 406, contact information 408 (phone number, fax number, Internet  
15   address, email address). Methods of payment accepted 409 by the financial institution server 142 are also entered, including credit card types, debit card types, smart cards types, etc. Financial institution details 400 is stored in a collection of financial institutions 104 in the third party privacy server 100 and confirmation is sent back to the financial information server 142.

20       In another preferred embodiment, financial institution 140 could use a browser application (and secure communication e.g., SSL) to communicate with the third party privacy server 100 via the Internet 130 to register.

      The financial institution 140 registration process ends when a transaction detail 600 is added to a collection of transactions 106 indicating the new financial institution  
25   140 has been added to a collection of financial institutions 104. Each time there is an addition, modification or deletion of information in the third party privacy server 100, a transaction detail 600 is added to a collection of transactions 106.

Freight Company Registration



Similarly, a person from the freight company 150 manually contacts a person at the third party privacy server 100 location to register. The person at the third party privacy server 100 location registers the freight company by entering identification information, including freight company ID 502, password/password hint 504, name/address 506, contact information 508 (phone number, fax number, Internet address, email address). Methods of shipment accepted 509 by the freight company server 152 are also entered, including the information required for the third party privacy server 100 to be a "power shipper" for the freight company 150. Freight detail 500 is stored in a collection of freight companies 105 in the third party privacy server 100 and confirmation is sent back to the freight company server 152.

In another preferred embodiment, freight company 150 could use a browser application to communicate with the third party privacy server 100 via the Internet 130 to register.

The freight company registration process ends when a transaction detail 600 is added to a collection of transactions 106 indicating the new freight company 150 has been added to a collection of freight companies 105. Each time there is an addition, modification or deletion of information in the third party privacy server 100, a transaction detail 600 is added to a collection of transactions 106.

#### Seller Registration

As shown in Figure 1, browser application 114 is used by the seller client 112 to access the Internet 130 in order to gain access to a collection of sellers 102 on the third party privacy server 100. In another preferred embodiment, seller client 112 could use an in-store point-of-sale terminal 116 to access a collection of sellers 102. In yet another preferred embodiment, the seller 110 could use a phone or fax to manually communicate with a person at the third party privacy server 100 location, who could then enter the information directly into a collection of sellers 102. Seller client 112 registers by entering identification information, including seller ID 201, password/password hint 202,

seller name/seller address 203, contact information 204 (phone number, fax number, Internet address, email address). Methods of payment accepted 205 by seller 110 are also entered. In addition, the payment method for service 206 used by seller 110 to pay for accessing the third party privacy server 100, as well as for paying for tokens for unsolicited messages sent to buyers 120, are entered and could include credit card number, credit card name, credit card expiration date, bank account information, and letter of credit information. The third party privacy server 100 verifies the payment method by sending payment details to a financial institution 140 for verification. Verification is returned and seller detail 200 is stored in a collection of sellers 102. Confirmation is then sent back to the seller 110. In another embodiment, the seller 110 may choose to remain anonymous, in which case, the seller 110 is assigned a pseudo identity in a manner similar to Buyer Registration, described below. Registration is complete when transaction detail 600 is logged in a collection of transactions 106 indicating the addition of the new seller 110.

Note that in another embodiment, the seller 110 could have multiple pickup addresses stored in seller details 200 that could be matched with the address in the pseudo identity 306 of the buyer 110.

#### Buyer Registration

As shown in Figure 1, browser application 124 is used by the buyer client 122 to access the Internet 130 in order to gain access to a collection of buyers 103 on the third party privacy server 100. In another preferred embodiment, the buyer 120 could manually contact, by phone, fax or regular mail, a person at the third party privacy server 100 location and have them manually enter the information into a collection of buyers 103. Buyer client 122 registers by entering buyer ID 301, password/password hint 302, actual name/actual address 303, and contact information 304 (phone number, email address, and preferences 305, consideration amount to be paid by seller client 112 for sending unsolicited promotions to buyer client 122, privacy preferences, category preferences, and delivery preferences).

Figure 10 shows one embodiment of how the third party privacy server 100 generates a unique buyer ID 1000. Buyer ID 1000 is generated by taking the buyer ID entered by the buyer client 122 and storing it in buyer code 1010, then space-filling space fill 1020 so that the total length of buyer ID 1000 is a fixed length, assigning a code to collision code 1030 to eliminate collision in buyer ID 1000, and generating a check value 1040, such as a cryptographic hash using DES, of the buyer code 1010, space fill 1020 and collision code 1030. This unique buyer ID 1000 is then stored in buyer detail 300, which is stored in a collection of buyers 103 with the other information entered by the buyer client 122.

In another preferred embodiment, the third party privacy server 100 could generate a series of single-use buyer ID's by incrementing the collision code 1030 in the Buyer ID 1000. These unique single-use keys would be given to the buyer 120 in advance and would prevent fraudulent use by a third party, particularly when the risk of fraudulent use is increased, such as when the buyer 120 communicates with a seller 110 over the phone or fax, rather than over the Internet 130. Any time a single-use buyer ID is used more than once, it would indicate a fraudulent use and would permit immediate corrective action to be taken by the third party privacy server 100 and/or seller 110 and/or financial institution 140. However, it is likely that the third party privacy server 100 would identify the error before anything is sent to the financial institution server 142.

The third party privacy server 100 passes control to a financial institution server 142 for payment type registration (not authentication because no payment types have been entered), with the actual name/actual address 303 entered by buyer client 122. Figure 11 illustrates the creation of a payment detail 1100 in a collection of payment details 144. Actual name/actual address 303 is stored in actual identity 1110. Financial institution server 142 next accepts payment details directly from buyer client 122, including payment card number, card name and card expiration date for each debit, credit, or other type of payment. Other embodiments might include bank checking

account number or frequent flyer account number. Financial institution server 142 validates each payment type and stores it in a collection of actual payment types 1130 for buyer 120. If more than one payment type is entered, rules are also entered to determine when a payment type is to be used. In one embodiment, payment type could  
5 be determined by the category of a transaction. For example, travel and other related business expenses could be assigned to payment type #1, an American Express credit card stored in a collection of actual payment types 1130, while all other categories could be assigned to payment type #2, a debit card stored in a collection of actual payment types 1130. This will later give the financial institution server 142 more information to  
10 intelligently serve the buyer's needs in an increasingly automated shopping environment. In another embodiment, a payment type could be determined by the amount of a transaction. In yet another embodiment, it could be determined by using one payment type until credit is no longer available, then the next type, and so on. These rules are stored in a collection of payment rules 1140.

15 The financial institution server 142 then assigns a valid but pseudo payment identity, comprised of a pseudo number, pseudo name, and pseudo expiration date to each of the payment types in a collection of actual payment types 1130 and stores them in a collection of pseudo payment types 1150. The financial institution server 142 then creates a pseudo identity for the buyer 120. In one embodiment, this is made up of the  
20 buyer ID, a fictitious street address, actual city, state and zip code. This is stored in pseudo identity 1120. Payment details 1100 is then stored in a collection of payment details 144 to complete the payment registration. Note that payment details 1100 is structured in a way that can rapidly link the pseudo payment type with the actual payment types for real-time payment authorization.

25 Control is then passed back to the third party privacy server 100 with only the pseudo identity 1120 and a collection of pseudo payment types 1150, which is stored in pseudo identity 306. Buyer detail 300 is then stored in a collection of buyers 103. Note that the information from a collection of payment types 1030 and a collection of payment

rules 1040 in payment details 1000 in financial institution 140 are unknown to and unwanted by the third party privacy server 100. This limits liability and limits the private information required to be stored by the third party privacy server 100. A confirmation message sent from the third party privacy server 100 to the buyer client 122 is shown in Figure 12.

In another embodiment, the third party privacy server 100 could assign a pseudo identity 306 for this buyer without having to register a payment type with financial institution 140. This would be for people who want a pseudo identity but do not want to use it for shopping.

Each time there is an addition, modification or deletion of information in the third party privacy server 100, a transaction detail 600 is added to a collection of transactions 106. The buyer registration process is ended when a transaction detail 600 is added to a collection of transactions 106 indicating the new buyer has been added to a collection of buyers 103.

#### Example Purchases and Returns

The following describes examples of how the privacy system would allow private purchases and returns of physical goods.

##### Non e-Commerce Sale

Buyer 120 contacts seller 110 by the phone or by an in-store visit. Seller 110 enters the sale information along with the buyer's ID and freight preference (regular, express) into a point-of-sale terminal 116 which is connected to the seller server 118. In one embodiment, the seller 110 generates a reference number and sale category, and sends the seller ID, buyer ID and sale information via the Internet 130 to the third party privacy server 100 for identity authentication. The third party privacy server 100 verifies the seller ID from a collection of sellers 102, and buyer ID from a collection of buyers 103, where it also obtains the buyer's pseudo identity 320.

Next, the third party privacy server 100 determines the preferred payment type for the buyer by generating a temporary payment type table from the pseudo payment

types in pseudo identity 320. If there is only one pseudo payment type for the buyer, it is the only item entered in the table. If the sale category from seller is unknown, the first pseudo payment type is entered into the table. Otherwise, the most appropriate pseudo payment type is considered preferred, based on matching categories. Any additional pseudo payment types are also added to the table in case the first type is refused (not authenticated). All pseudo payment types are placed in the temporary table, with the preferred type at the top. The third party privacy server 100 completes the identity authentication by returning the pseudo identity, temporary payment type table, and original reference to the seller server 118 and point-of-sale terminal 116. Since interception of this transaction could permit fraud, the transaction is well protected using digital signatures and SSL with both client and server side certificates.

A sale may or may not require payment authentication or delivery authentication. For example, the buyer 120 might be registering for a free service from the seller 110, in which case neither authentication is required.

If the sale does not require a payment, such as for a free sample, then the following payment is skipped. The seller server 118 next sends the first pseudo payment type in the temporary table and the amount of the sale to the financial institution server 142, for payment authentication. This authentication is in the same manner that any other payment would be authenticated with any financial institution 140, such as through the bank authorization network. In one embodiment, the financial institution server 142 recognizes the payment type as a pseudo type because of a range check of the payment card number, and uses a collection of pseudo payment types 1050, a collection of actual payment types 1030 and a collection of payment rules 1040 to determine the actual payment type to use for the buyer 120. The financial institution server 142 then completes the payment authentication in the regular manner and generates an authorization code which is returned to the seller server 118 and point-of-sale terminal 116, again in the regular manner. Payment authentication is then complete. If the payment authentication is refused, the seller server 118 examines the temporary table

to see if other pseudo payment types are available. If they are, the process is repeated for each pseudo payment type until authentication is successful or until there are no more payment types in the table, in which case the buyer 120 is informed of the refusal (not being authenticated).

5        If the sale does not require any merchandise to be delivered, such as for a service item that has been purchased, then the following delivery authentication is skipped. Otherwise, the seller 110 prepares the sale items for pickup using the reference number generated by the point-of-sale terminal 116. Using the freight preference entered on the point-of-sale terminal 116, the third party privacy server 100 determines the freight  
10 detail 500 from a collection of freight companies 105 to use, and the address of the "power shipper" information and required format from methods of shipment accepted 509. The third party privacy server 100 then sends the seller 110 a reference number for this sale, seller name/seller address 203 from seller details 200 in a collection of sellers 102, and actual name/actual address 303 and contact information 304 from buyer  
15 detail 300 in a collection of buyers 103, to freight company server 152 for freight authentication. As the "power shipper", the third party privacy server 100 receives authentication. If it fails, then the third party privacy server 100 informs the seller 110, who informs the buyer 120 and another freight option is authenticated. Note that this might require the seller 110 voiding or altering the sale because of a possible difference  
20 in the freight charges. If all freight options fail, then the seller 110 may have to void the entire sale. If the freight authentication is successful, then the freight tracking number is generated by the freight company server 152 and is sent to the third party privacy server 100. The freight authentication of the sale is complete.

25        The seller 110 completes the sale by verbally giving the seller 110 reference number to the buyer 120 and storing the sale in the sales history file 119 on the seller server 118. Note that any future relationship between the seller 110 and the buyer 120 is by the third party privacy server 100. An ongoing, anonymous, private relationship is therefore possible after the sale has been completed.

Finally, the seller server 118 sends the sale to the third party privacy server 100 by sending the seller ID, buyer ID, reference number, sale information and sale completion code. The sale is completed on the third party privacy server 100 by storing the sale in transaction detail 600 in a collection of transactions 106. This includes seller ID, buyer ID, freight company ID, and other information related to the sale. The seller 110 or buyer 120 can retrieve information from the transaction detail 600 about this or any other sale by using a Seller Inquiry or Buyer Inquiry (described below). Note that this can only be done in a way that respects the privacy and anonymity of the buyer 120 and, in some cases, the seller 110.

If the sale requires a delivery, the freight company server 152 schedules the pickup from the seller 110 in a way that does not identify the buyer 120, but uses the reference number generated by the point-of-sale terminal 116. After the package has been picked up, the freight company delivers the package to the actual name and address of the buyer 120. Note that this process does not require the freight company to contact the third party privacy server 100 during the actual delivery process, thus making the delivery company's processes self-contained and self-dependent.

If the sale requires a buyer 120 payment, such as for credit card usage, the issuing financial institution 140 sends the buyer 120 on a statement at the end of the billing cycle.

Another embodiment could be selecting the pseudo payment type by the amount of the transaction. For example, anything over a certain amount could be charged to American Express, while anything that is personal and less than \$5 could be cyber tokens. Everything else could be charged to a debit card.

Another embodiment, the payment authentication of the sale could be processed by a "black box" computer that is licensed to the financial institution 140. This would be a much more secure and acceptable method of processing than actually changing the way the financial institution's internal systems operate.

eCommerce Sale



This type of sale is very similar to the Non-eCommerce Sale described above. The differences are noted as follows. The buyer 120 starts the sale by using browser application 124 in buyer client 122 to access the Internet 130 to locate the seller server 118. Once located, seller server 118 receives the buyer ID, which in the preferred embodiment, is entered by the buyer 120 for each sale. In other embodiments, the buyer ID can be retrieved from the buyer client 122, retrieved from another marketplace server, or from an intelligent agent acting on the buyer's 120 behalf. The seller server 118 also receives the items to be purchased from the buyer client 122. The sale is processed in the same way as a Non-eCommerce Sale except decisions that have to be made, such as for payment and freight options, are entered into the buyer client 122 rather than over the phone or from an in-store visit. The sale is completed by the seller server 118 by giving the buyer client 122 the sale reference number. The seller 110 or buyer 120 can retrieve information from the third party privacy server 100 about this or any other sale by using a Seller Inquiry or Buyer Inquiry (described below).

In another embodiment, the seller server 118 could be located and the sale processed by an intelligent agent representing the buyer 120, rather than by direct intervention of the buyer 120 using buyer client 122.

#### Non-eCommerce Returns

Buyer 120 contacts seller 110 by the phone or by an in-store visit. Seller 110 enters the return sale information along with the buyer's ID and, optionally the buyer's freight preference, into a point-of-sale terminal 116 which is connected to the seller server 118. In the embodiment, the return sale and buyer ID is verified against a sales history file 119 stored on the seller server 118 and, if not located, the return request could be rejected. Otherwise, the seller server 118 generates a return authorization number and sends the seller ID, buyer ID and return information via the Internet 130 to the third party privacy server 100 for identity authentication. The third party privacy server 100 then authenticates the seller ID from a collection of sellers 102, and buyer ID from a collection of buyers 103, where it also obtains the buyer's pseudo identity 306.

The third party privacy server 100 creates a temporary payment type table in the same way as described in Non-eCommerce Sale above. The third party privacy server 100 completes the identity authentication by returning the pseudo identity, temporary payment type table, and original reference to the seller server 118 and point-of-sale terminal 116.

If the return does not require a refund, such as for a free sample, then the following refund authentication is skipped. The seller server 118 determines the refund type from the previous payment method from the sales history file 119, or from the payment table, as described in Non-eCommerce Sale. This payment type and refund amount is authenticated by the financial institution as described in Non-eCommerce Sale.

If the return does not require any merchandise to be picked up from the buyer 120 and returned to the seller 110, such as for a service item that is being canceled, the following delivery authentication is skipped. Otherwise, the buyer 120 prepares the return items for pickup using the return authorization code number generated by the point-of-sale terminal 116. As the "power shipper", the third party privacy server 100 schedules the pickup in the same way as described in Non-eCommerce Sale above, except that the pickup is from the buyer 120 and delivery is to the seller 110, but still in a way that assures the privacy of the buyer 120. Freight authentication of the return is then complete.

The seller 110 completes the return by verbally giving the return authorization number to the buyer 120 and storing the return in the seller server 118. Again, note that any future relationship between the seller 110 and the buyer 120 is by the third party privacy server 100. An ongoing, anonymous, private relationship is therefore possible after the return has been completed.

Finally, the seller client 112 completes the return by sending the seller ID, buyer ID, return authorization number, return information and return completion code to the third party privacy server 100. The return is completed on the third party privacy server

100 by storing a transaction detail 600 in a collection of transactions 106. This includes seller ID, buyer ID, freight company ID, and other information related to the return. The seller 110 or buyer 120 can retrieve information from the third party privacy server 100 about this or any other return by using a Seller Inquiry or Buyer Inquiry (described  
5 below).

If the sale requires a buyer 120 refund, such as for credit card usage, the issuing financial institution 140 notes this for the buyer 120 on a statement at the end of the billing cycle.

In another preferred embodiment, the seller 110 may permit a buyer 120 to return  
10 an item without contacting the seller 110 first. In this case, the buyer 120 would contact the freight company 150 and have it schedule a pickup from the buyer 120 and have a delivery sent to the seller 110. It would then be up to the seller 110 to enter the return into its point-of-sale terminal 116, which would transmit the return to the third party privacy server 100 so that the transaction could be stored in transaction detail 600 in  
15 collection of transactions 106.

#### eCommerce Return

This type of return is very similar to the Non-eCommerce Return described above. The differences are noted as follows. The buyer 120 starts the return by using browser application 124 in buyer client 122 to access the Internet 130 to locate the seller server  
20 118. Once located, seller server 118 receives the buyer ID, which in the preferred embodiment, is entered by the buyer 120. In other embodiments, the buyer ID can be retrieved from the buyer client 122, retrieved from another marketplace server, or obtained by an intelligent agent working on behalf of the buyer 120. The seller server 118 also receives the items to be returned from the buyer client 122. The return is  
25 processed in the same way as a Non-eCommerce Sale except decisions that have to be made, such as for payment and freight options if any, are entered into the buyer client 122 rather than over the phone or from an in-store visit. The return can then be completed by the seller server 118 by giving the buyer client 122 the return

authorization number for the return. The seller 110 or buyer 120 can retrieve information from the third party privacy server 100 about this or any other return by using a Seller Inquiries or Buyer Inquiry (described below).

5 In another preferred embodiment, the seller server 118 could be located and the return processed by an intelligent agent representing the buyer 120, rather than by direct intervention of the buyer 120 using buyer client 122.

### Inquiries

The following describes how inquiries will be handled.

#### 10 Buyer Inquiries

The buyer 120 uses a browser application 124 to access the Internet 130 to gain access to the third party privacy server 100. In another embodiment, the buyer 120 uses other means to access the third party privacy server 100, such as phoning an operator who has access, or a fax to a person with access or in machine readable fax format that  
15 could access the third party privacy server 100 without an operator. In the preferred embodiment, the buyer would provide a buyer ID and password or other identifying mechanism to access his or her own buyer detail 300 in a collection of buyers 103, plus the corresponding transaction details 600 for buyer 120 in a collection of transactions 106.

20 Figure 13 shows the preferred embodiment of the information returned. The buyer ID, password, password hint, consideration amount, token balance, privacy, category and delivery preferences, actual identity including contact information, and pseudo identity including the pseudo payments are all from buyer detail 300 in a collection of buyers 103. Note that, in this example, two credit cards were specified by  
25 the buyer 120, but actual card numbers are unknown to the third party privacy server 100. Figure 13 also shows the following information from transaction details 600 in a collection of transactions 106: transaction date, transaction time, seller name, transaction type, transaction category, transaction amount, freight tracking code,

transaction payment type number, transaction reference number assigned by the seller 110, and transaction comments. The buyer 120 can modify all fields from a collection of buyers 103 except for pseudo payment information. For this, control must be passed to the financial institution 140 in the manner described in Buyer Registration above.

5 The only field in transaction detail 600 that can be changed is comments 606.

In another embodiment, the buyer 120 could also review other related information in a collection of transactions 106, such as which sellers 110 have made Seller Inquiries, discussed below, about buyer 120 for the purpose of prospecting for new business.

#### Seller Inquiries

10 In the preferred embodiment, there are two types of seller inquiries. Figure 14 shows the information from seller detail 200 in a collection of sellers 102, and a collection of transactions 106 for a specific seller 110. Figure 15 shows partial information from buyer detail 300 in a collection of buyers 103, and transaction detail 600 for that buyer ID 301 in a collection of transactions 106 for a specific buyer 120 that  
15 the seller 110 wants to learn more about.

Figure 14 shows a sample Seller Inquiry. This is started by the seller 110 using a browser application 114 to access the Internet 130 to gain access to the third party privacy server 100. In another embodiment, the seller 110 uses other means to access the third party privacy server 100, such as a phone call to an operator who has access,  
20 or a fax to a person with access or a fax in machine readable format that could access the third party privacy server 100 without an operator. In the preferred embodiment, the seller would provide a seller ID and password or other identifying mechanism to access the correct seller detail 200 in a collection of sellers 102, and corresponding transaction details 600 in a collection of transactions 106.

25 Figure 14 shows one embodiment of the information returned. The seller ID, password, password hint, methods of payment accepted, payment method for service, actual name, address, phone, fax, Internet address and email address are all from seller detail 200 in a collection of sellers 102. In another embodiment, the seller 110 could also

have a pseudo identity if the seller 110 wishes to remain anonymous to buyers 120. Figure 14 also shows the following related information from transaction detail 600 in a collection of transactions 106: transaction date, transaction time, transaction type, transaction amount, and transaction comments. The seller 110 can modify all fields in seller detail 200 from a collection of sellers 102. The only field in transaction detail 600 from a collection of transactions 106 that can be changed is comments 606.

In another embodiment, other information from a collection of transactions 106 could be shown, such as activity for a certain product line, sales for a certain time period, or activity for a specific location. In yet another embodiment, the information from a collection of transactions 106 could be in summary form by combining similar transactions.

Figure 15 shows another sample Seller Inquiry where the seller 110 would identify a specific buyer 120 by entering the buyer ID. Figure 15 shows one embodiment of the information returned. The buyer ID, location, consideration amount for unsolicited promotions, remaining token balance, and category preferences are from buyer detail 300. Note that no information is shown that could be used to identify the identity of buyer 120. Figure 15 also shows the following related information from transaction details 600 from a collection of transactions 106 for buyer ID 301: transaction date, transaction time, seller, transaction type, transaction category, transaction amount, and transaction reference assigned by the seller 110. Note that seller and reference number are only shown if this transaction is for the seller 110 making this inquiry. In this embodiment, the seller 110 cannot modify any fields in this screen.

In another embodiment, other information from a collection of transactions 106 could be shown, such as activity for a certain product line, sales for a certain time period, or activity for a specific location. In yet another embodiment, the information from a collection of transactions 106 could be in summary form by combining similar

transactions. In another embodiment, the information from a collection of transactions 106 could be for a group of buyers 120 who share the same characteristics or behavior.

In another embodiment, all of the information in seller inquiries could be retrieved electronically and sent to the seller server 118 for later processing.

5    Financial Institution Inquiries

A financial institution 140 could also make inquiries in a similar manner as described in Seller Inquiries above. These inquiries could also be for the routine maintenance of financial institution detail 400 by a specific financial institution 140 or for inquiries related to one or more buyers 120 from buyer detail 300 and the  
10   corresponding transaction details 600.

Freight Company Inquiries

A freight company 150 could also make inquiries in a similar manner as described in Seller Inquiries above. These inquiries could also be for the routine maintenance of freight detail 500 for a specific freight company 150 or for inquiries related to one or  
15   more buyers 120 from buyer detail 300 and the corresponding transaction details 600.

Non-eCommerce Charge-back

A buyer 120 may disagree with a charge from a financial institution 140. In the preferred embodiment, the following charge-back is described. The buyer 120 uses Buyer Inquiry, described above, to locate the transaction in question from a collection  
20   of transactions 106 in the third party privacy server 100. The buyer then contacts the financial institution 140 by phone or by accessing the financial institution server 142, and identifies himself or herself by providing a buyer ID or actual payment method or pseudo payment method. The financial institution server 142 authenticates the buyer 120 and buyer's claim, and process the charge-back in the regular manner against the  
25   seller 110, but by using the pseudo payment method so that the buyer 120 remains anonymous. If the seller 110 wants to get more information about the buyer 120, Buyer Inquiries, described above, can be used. If the seller 110 wants to communicate with the

buyer 120, an Anonymous Message, described below, can be sent from the seller server 118 to the buyer client 122 via the third party privacy server 100.

#### Tracking Missing Deliveries

5 The buyer 120 uses Buyer Inquiries described above to locate the freight tracking number from a collection of transactions 106 for the missing delivery. As the “power shipper”, the third party privacy server 100 can then access the freight company server 162 to obtain the exact status of the delivery, which is then sent back to the buyer 120. In another embodiment, the buyer 120 phones a person at the third party privacy server 100 location and has this person make the inquiry for them. Yet another embodiment 10 could have the information accessed electronically from the buyer’s client 122 and returned directly to the buyer’s client 122.

In another embodiment, the seller 110 could have access to the delivery information, but only in a way that assures the anonymity of the buyer 120. This would probably require changes to be made on the freight company server to distinguish 15 whether the actual delivery address or the pseudo delivery address is to be shown to the person making the inquiry.

#### Anonymous Messages

A seller 110 can communicate with a buyer, either as a result of a sale or in an effort to make a sale. In one embodiment, the seller 110 uses a browser application 114 20 in seller client 112 to access the Internet 130 and the third party privacy server 100 to locate a specific buyer detail 300 in collection of buyers 103, as described in Seller Inquiries above. If the seller agrees to pay the buyer 120 the consideration amount for unsolicited offers and messages, the seller’s token balance 208 in seller detail 200 is debited and the buyer’s token balance 307 in buyer detail 300 is credited, and the 25 message is sent from seller server 118 to message detail 700 in a collection of messages 107 on the third party privacy server 100. The message is then processed for the buyer 120 in the preferred manner as described in the above noted related patent applications.



The buyer 120 can choose to reply or respond to the message, or can initiate his or her own anonymous messages to the seller 110 in a similar manner.

5 In another embodiment, the seller 110 may choose to have a message or promotion sent to many buyers 120, as described in the application entitled "Analysis and Communication Tools for a System", application number 60/057,685, filed August 27, 1997. In yet another embodiment, all communication between the seller 110 and buyer 120 can be electronic without the use of a browser application 114.

10 In another embodiment, the seller 110 might want to remain anonymous, in which case the buyer 120 can only respond to the seller 110 through the third party privacy server 100, in a manner similar to a seller-initiated message described above.

15 In the preferred embodiment, when the seller's token balance 208 falls to below a predefined amount, the third party privacy server 100 uses payment method for service 206 to charge the seller 110 for more tokens, which are then credited to token balance 208 in seller detail 200. Also note that a buyer 120 can use his or her own token balance 307 as a payment method for a sale, or can redeem these tokens from the third party privacy server 100 for cash.

Note that messages can also be from buyer 120 to buyer 120, which includes any combination of buyer 120, parent 160 or child 170. Also, the structure of a buyer ID can be the same as a seller ID and must be unique for both buyers and sellers.

#### 20 Another Embodiment - Combining the Privacy and Financial Servers

25 The previous description is for a stand-alone third party server 100. Another preferred embodiment would integrate the third party privacy server 100 with the financial institution server 142. The seller 110 would get a sale from the buyer 120, such as over the phone or directly from a browser application 124 as described above. The buyer 120 would identify themselves with their pseudo payment information. After the sale has been received by the seller server 118, the seller server 118 sends the pseudo payment information and sale amount to the financial institution server 142 for identity and payment authentication, where it is processed in the same manner as described

above. Briefly, financial institution server 142 converts the pseudo payment information into actual payment information, authenticates it, and returns it to the seller client 112 with an encrypted delivery address of the buyer. When the sale is completed, the seller client 112 schedules the delivery by passing the sales reference number and encrypted  
5 delivery address to the freight company server 152. The package is picked up by the freight company 150, the address is decrypted and the package is delivered to the buyer 120 without ever revealing the actual name and address of the buyer 120 to the seller 110. Return requests would be processed in a similar manner, where the financial institution 140 authenticates the pseudo payment information and includes an encrypted  
10 buyer 120 pickup address and normal seller 110 delivery address, again without ever revealing the actual name and address of the buyer 120.

#### Children's Privacy

As described above, a buyer 120 can register on the third party privacy server 100 and be assigned a pseudo identity that permits him or her to have an anonymous  
15 relationship with sellers 110. There is nothing to prevent a child from also registering and being assigned a pseudo identity in order to protect the privacy of that child.

#### Parent/Child Registration

How a parent or child accesses the third party privacy server 100 is functionally identical to the way a buyer accesses the third party privacy server. However, for the  
20 sake of clarity, the parent 160 uses browser application 164 and parent client 162 to access the Internet 130, and the child 170 uses browser application 174 and child client 172 to access the Internet 130. Also, for the sake of clarity, the actual key is in brackets. The parent 160 registers in the same manner described in Buyer Registration described above, with the following exceptions: the parent 160 also enters the child ID (buyer ID  
25 301) of each child 170, which is stored in parent link/child link/ratings 308 for the parent record (buyer detail 300). The parent 160 then registers each child 170 in the same manner, this time specifying the parent ID (buyer ID in 301) which is stored in parent link/child link/ratings 308 for the child record (buyer detail 300). The parent also stores

the ratings, discussed in a Web Rating System below, that the child 170 is permitted to access in parent link/child link/ratings 308. Note that parent link/child link/ratings 308 is structured in a manner so that the third party privacy server 100 can immediately determine if the current buyer detail 300 is for a parent 160 or a child 170, as well as  
5 determine the corresponding child 170 records for a given parent 160, or parent 160 record for a given child 170.

#### Accessing Web Sites, a Child Remaining Anonymous

The parent 160 accesses Web sites, shops, pays for, and takes delivery of items, returns items, makes inquiries, traces missing packages, etc. in exactly the same way as  
10 described for buyers 120 above. The child can also access Web sites but cannot purchase any items because of the missing payment information in pseudo identity 306. Specifically, the child can access Web sites and register for games, free samples, and the various other things being offered by sellers 110, by entering their child ID (buyer ID 301) at the seller server, but not their name, address, or any other identifiable  
15 information. This then permits the child 170 to have an anonymous relationship with the seller 110 (or any Web site owner). If the seller 110 requires more information, the seller 110 makes a Seller Inquiry, described above, and sees a warning on the screen explaining that this person is a child. The seller 110, or anyone else, can therefore have an anonymous relationship with the child 170 and visa versa by sending Anonymous  
20 Messages, as described above.

#### Parental Supervision of the Child's Relationships

Every time a seller 110 accesses the third party privacy server 100 to inquiry about a child 170, or every time there is an Anonymous Message sent to or from the child 170, the child's parent link/child link/ratings 308 is used to identify the parent 160  
25 (buyer ID 301) and the event is logged in transaction detail 600 in a collection of transactions 106 for the parent 160. This permits all anonymous behavior of the child 170 to be monitored by the parent 160.

#### Web Rating System

A collection of system ratings 108 on the third party privacy server 100 contains records described in system ratings detail 800. Each record contains an ID 802 of a buyer 110, seller 120, parent 160 or child 170 being rated, a Web site URL 804, a rating 806 with the ratings for the ID 802 or Web site URL 804 and is similar to the TV ratings system that describes adult content, violence content, suggested age groups, etc., comments 808 used to describe the rationale behind the ratings 806 given, and creating comments 809 containing the creating date, time and author ID of the system ratings detail 800. In each system ratings detail 800, at least one of ID 802 and Web site URL 804 must be specified.

A parent 160 can maintain his or her own personal parent ratings detail 900 to override or add to records in system ratings detail 800. The fields are the same.

Each time a child 170, as defined in parent link/child link/ratings 308, tries to send or receive an anonymous message, the third party privacy server 100 accesses parent ratings detail 900 to see if the person receiving the message from the child 170 or sending the message to the child 170 has a record in parent ratings detail 900 with the same ID 902. If there is no record, system ratings detail 800 is also checked in the same manner. If there is no record in either parent ratings detail 900 or ratings system detail 800, the anonymous message is processed as described in Anonymous Messages above, and the event is recorded in transaction detail 600 for the parent 160 referenced in the parent link/child link/ratings 308 for that child 170.

If there is a match, the rating in the child's parent link/child link/ratings 308 is compared to the ratings 906 or 806 to see if this child 170 is permitted access to this ID. If permission is granted, the message is processed as though no record in parent ratings detail 900 or system ratings detail 800 was found. If permission is not granted, then the message is not processed and the event is recorded in transaction detail 600 for the parent 160 referenced in the parent link/child link/ratings 308 for that child 170.

In a similar manner, each time a child 170 tries to access a Web site, a plug-in in the browser application 174 for the child 170 asks permission from the third party

privacy server 100, by accessing parent ratings detail 900 and then system rating detail 800, this time matching the desired URL with Web site URL 904 or 804 respectively. Permission is granted or not granted, and processing continues or is stopped, in the same manner described for a child 170 sending or receiving messages.

5

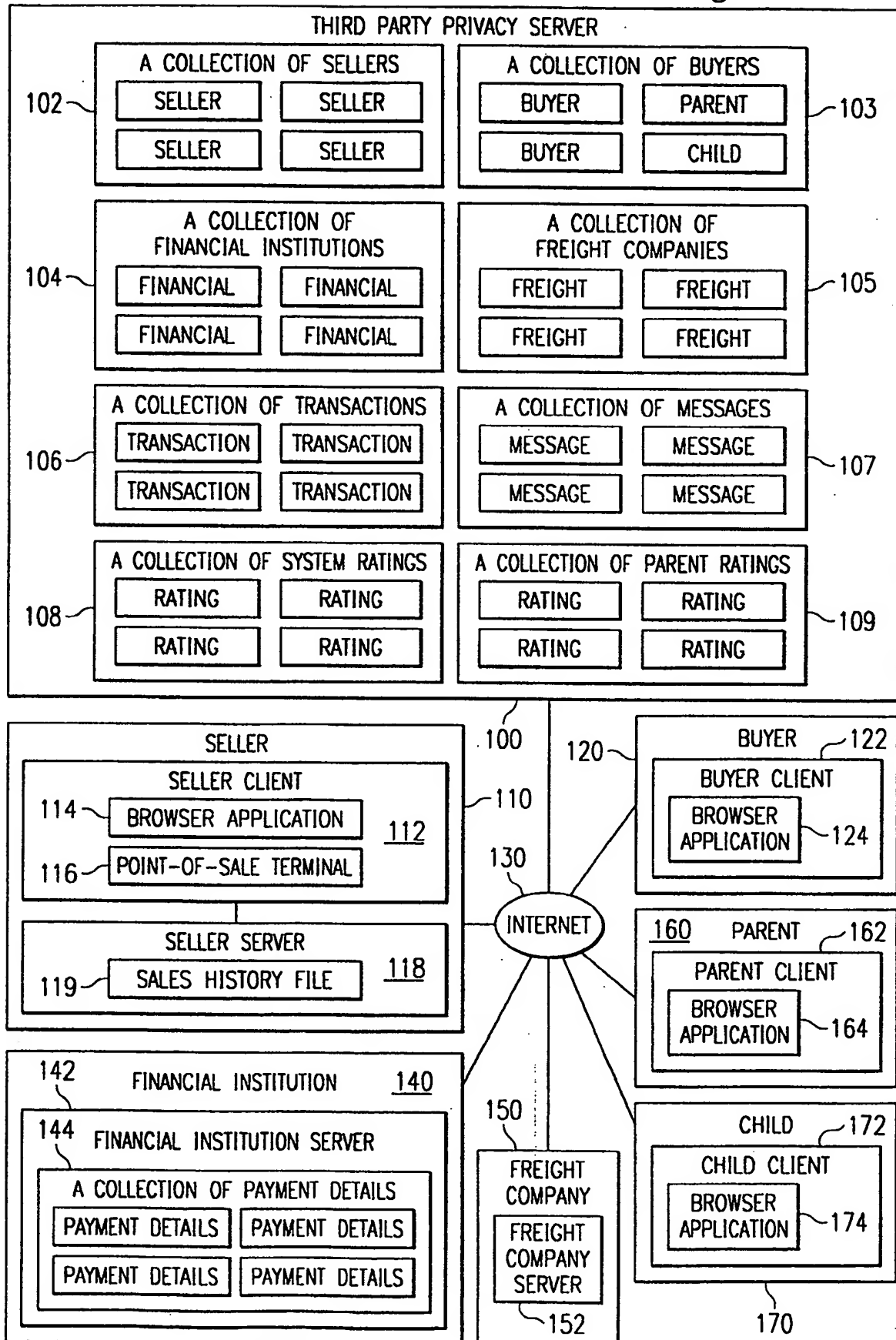
What is claimed is:

1. A server for providing privacy to consumers, the server comprising a program for generating a pseudo-identity that can be used to browse, register, purchase, pay for, and take delivery of goods, the pseudo-identity permitting a seller to access a purchase  
5 demand associated with the pseudo-identity, the pseudo-identity permitting a financial institution to see payment information, the pseudo-identity permitting a freight company to deliver the goods.
2. The server of claim 1 wherein the pseudo-identity can be used during Internet  
10 based browsing.
3. The server of claim 1 wherein the seller cannot identify the user associated with the pseudo-identity.
- 15 4. The server of claim 1 wherein the financial institute cannot identify the goods.
5. The server of claim 1 wherein the freight company cannot identify the goods.

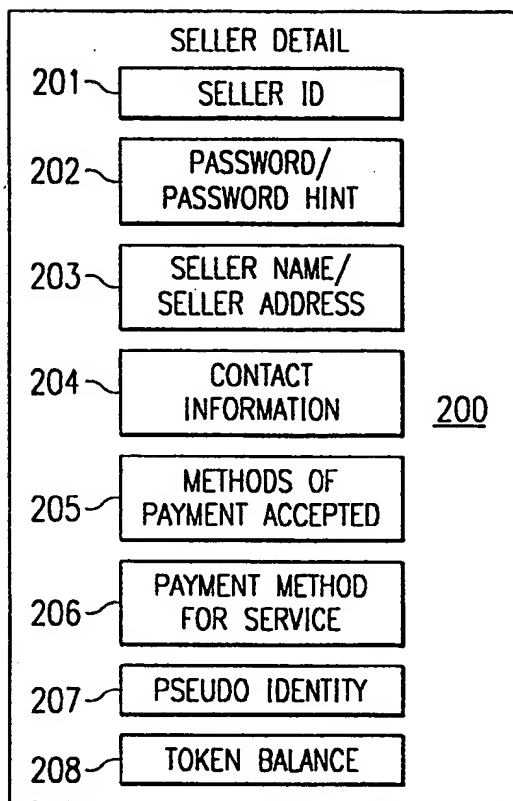
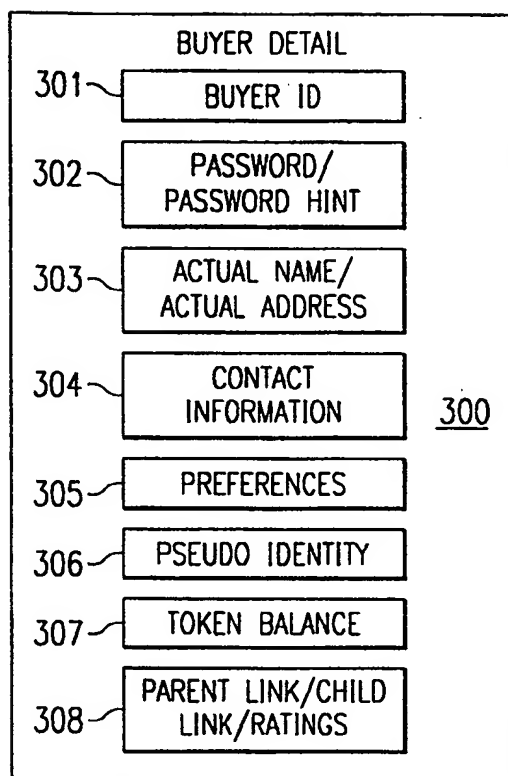
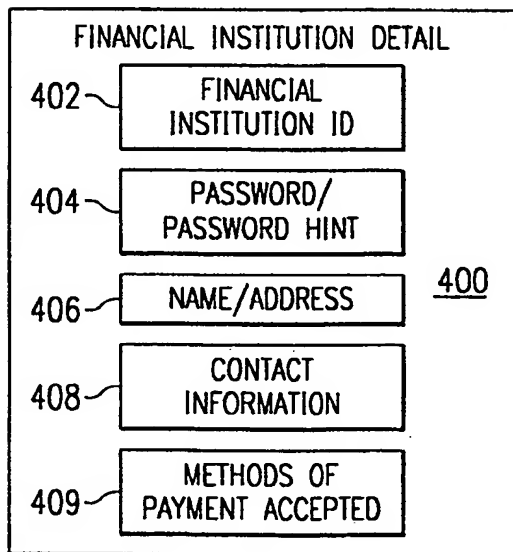
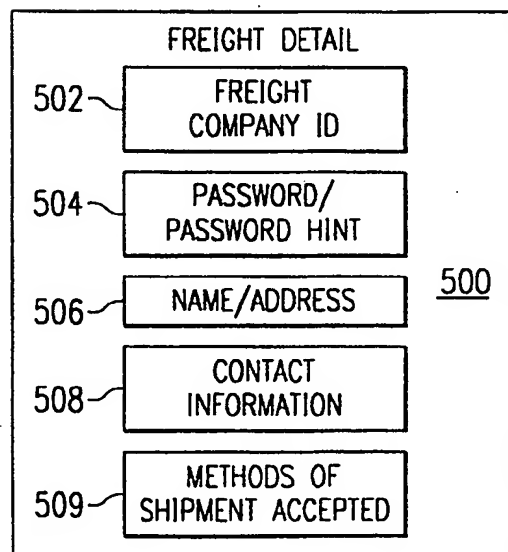
20

1/5

Fig. 1

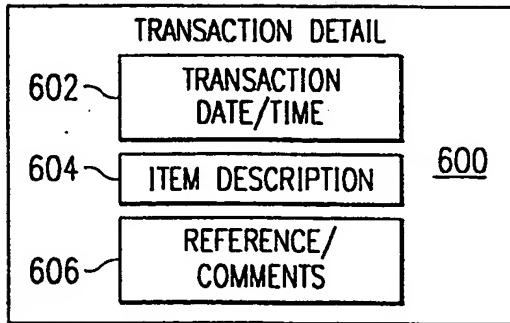
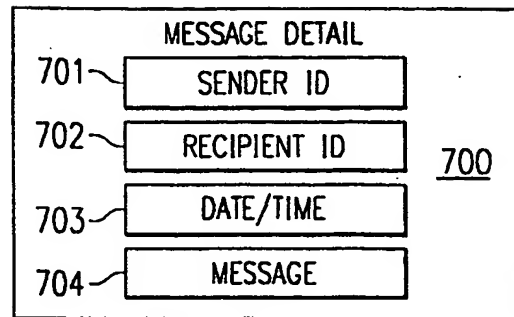
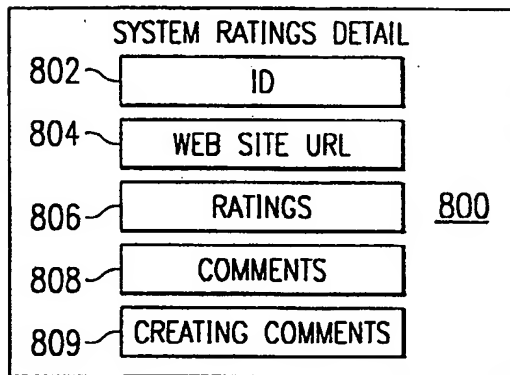
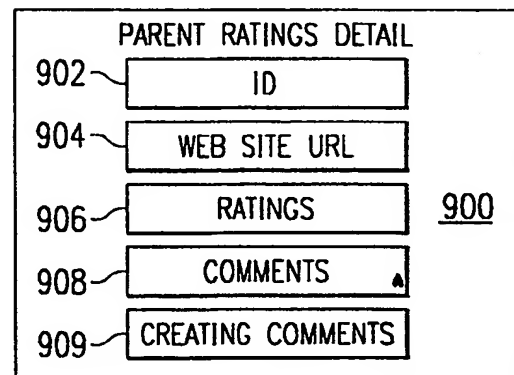
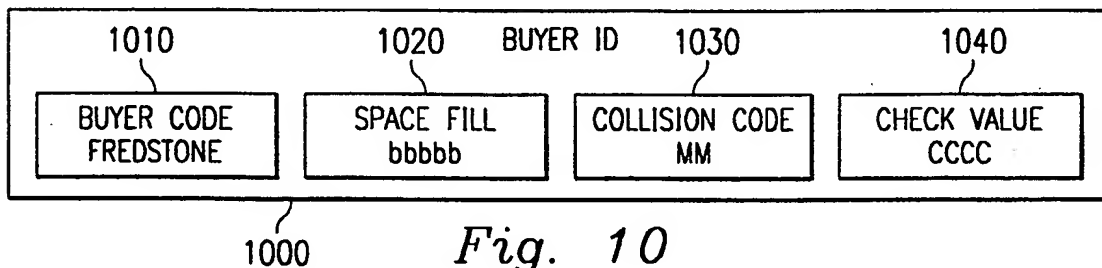
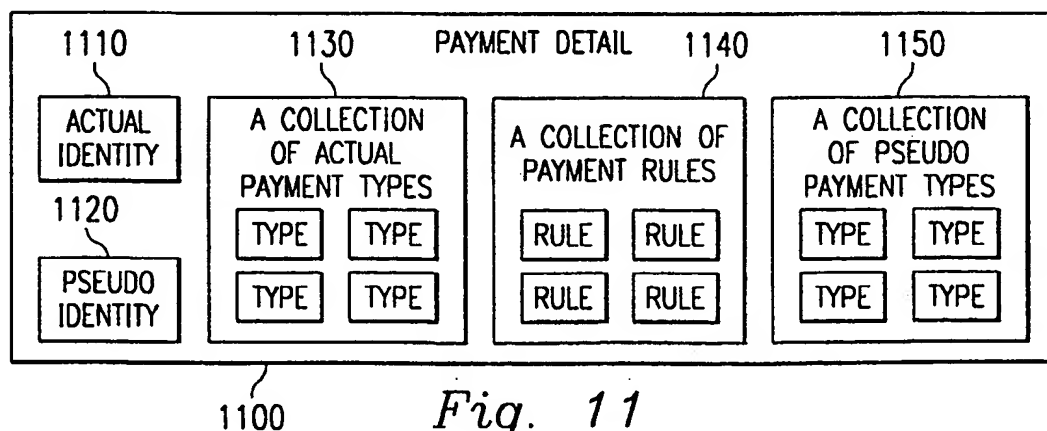


2/5

*Fig. 2**Fig. 3**Fig. 4**Fig. 5*



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*Fig. 6**Fig. 7**Fig. 8**Fig. 9**Fig. 10**Fig. 11*

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Here is the pseudo delivery address and credit cards that you will use when placing a private, anonymous order:

Mr. FREDSTONE0123234

1 Main Street

[actual city] [actual state] [actual zip code]

Credit card [pseudo card number] for T&E

Debit card [pseudo card number] for everything else

There is no need to record this because an intelligent agent will remember all of it for you. Your actual credit card(s) will be used by a certified bank. Your actual name and address will only be used by certified freight companies. All parties are audited by Ernst & Young to ensure that your privacy is not violated.

Your registration is now complete - thank you.

Fig. 12

Buyer Inquiry									
Buyer ID	FREDSTONE0123234								
Password	Bill								
Password hint	my best friend								
Consideration amount	\$ 5.00								
Token balance	\$24.50								
Preferences: Privacy	Opt-in for all lists								
Category	Football, Travel, Weaving								
Delivery	Leave with neighbors at 125 Park Place								
	Your actual identity				Your pseudo identity				
Name	Fred Smith				Mr. FREDSTONE0123234				
Address	123 Park Place Dallas TX 75240				1 Main Street Dallas TX 75240				
Phone	214 345-5002								
Email	fred@fedex.com								
Pay type #1	(only the bank knows)				1201949281 for T&E				
Pay type #2	(only the bank knows)				4505930234 for all else				
Date	Time	Seller	Type	Cat	Amount	Tracking	Pmt#	Ref#	Comments
05/02	12:44	Sears	Sale	Houseware	100.00	AS69393294	1	1954	Birthday pres
05/04	12:43	Sears	Return	Houseware	-100.00	50492948	1	40931	RAN 4409
05/04	03:12	WalMart	Sale	Clothing	45.22	G59292348	2	349094	Sweater
05/12	05:35	HomeDept	Sale	Pool	676.22	6958344434	1	43	Motor
05/24	12:43	Sears	Sale	Bedding	145.34	6939483822	1	5942	Sheets
					866.78				

Fig. 13

5/5

Seller Inquiry																						
Seller ID	LANDS END																					
Password	309842																					
Password hint	File 2402																					
Payments accepted by	Amex, Visa, MasterCard, Discover																					
Pay for service by	Bank account 12059323-5596832																					
Token balance	\$504.50																					
<table border="0"> <tr> <td></td> <td>Your actual identity</td> <td>Your pseudo identity</td> </tr> <tr> <td>Name</td> <td>Lands End</td> <td></td> </tr> <tr> <td>Address</td> <td>1 Lands End Way Hudson VT 43002</td> <td></td> </tr> <tr> <td>Phone</td> <td>800 500-5445</td> <td></td> </tr> <tr> <td>Fax</td> <td>548 343-5699</td> <td></td> </tr> <tr> <td>Internet address</td> <td>www.landsend.com</td> <td></td> </tr> <tr> <td>Email</td> <td>fred@fedex.com</td> <td></td> </tr> </table>			Your actual identity	Your pseudo identity	Name	Lands End		Address	1 Lands End Way Hudson VT 43002		Phone	800 500-5445		Fax	548 343-5699		Internet address	www.landsend.com		Email	fred@fedex.com	
	Your actual identity	Your pseudo identity																				
Name	Lands End																					
Address	1 Lands End Way Hudson VT 43002																					
Phone	800 500-5445																					
Fax	548 343-5699																					
Internet address	www.landsend.com																					
Email	fred@fedex.com																					

Date	Time	Type	Amount	Comments
04/03	02:44	Report	453.67	Lead generation report
04/04	02:43	Change		Change password
04/06	03:12	Promotion	4,352.22	Summer clearance
04/12	05:35	Report	676.22	Lapsed customers
			5,482.11	

Fig. 14

Seller Inquiries for Buyer Activity						
Buyer ID		FREDSTONE0123234				
Location		Dallas TX 75240				
Consideration amount		\$5.00				
Category preferences		Football, Travel, Weaving				

Date	Time	Seller	Type	Cat	Amount	Ref#
05/02	12:44	Sears	Sale	Houseware	100.00	304943
05/04	12:43	Sears	Return	Houseware	-100.00	40931
05/04	03:12		Sale	Clothing	45.22	
05/12	05:35		Sale	Pool	676.22	
05/24	12:43	Sears	Sale	Bedding	145.34	5942
					866.78	

Fig. 15

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US99/13752

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(6) : G06F 17/30

UIS CL : 705/1

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 705/1, 26

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

dialog search terms: pseudo identity, privacy

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A,P	No Author, "Buying Online" Farm Industry News, March 31, 1999 whole document	1-3
X,P	No Author, "YourCommand Introduces New Search Engine With Certified Privacy" Business Wire, October 7, 1998 whole document	1-5
X,P	No Author, "Internet Start-Up Announces Anonymity for Children" Business Wire October 7, 1998 whole document	1-5
A	Steinke, Steve, "What can E-Money Do for Me?" Network, December 1997, v. 12, n. 13, p 71(5), whole document	1-5



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier document published on or after the international filing date	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"I" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&" document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search

on AUGUST 1999

Date of mailing of the international search report

31 AUG 1999

Name and mailing address of the ISA/US  
Commissioner of Patents and Trademarks  
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Washington, D.C. 20231

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M. Kemper

Telephone No. (703) 305-9589

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/US99/13752

## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	Anonymous, "Risks of Anonymity", Communications of the ACM, December 1996, v. 39, n. 12, p. 162	1
A,P	Hoffman, Donna L. et al., "Building Consumer Trust Online" Communications of the ACM, April 1999 v. 42, n. 2, p. 80-85	1
A,P	No Author, "CommerceNet Partners with @YourCommand to Help Solve Privacy Problems on the Internet" PR Newswire December 3, 1998 p. 236	1-5
A,P	Machrone, Bill, "Again, the Privacy Bugaboo" PC MAGAZINE April 6, 1999, p. 85(1)	1
A,P	US 5,884,272 A (WALKER et al.) 16 March 1999, abstract, summary	1-5
A,P	EP 855,659 A1 (GABBER et al.) 29 July 1998, abstract,summary	1-5